Test the fruit model

```
test dir=r'C:\Users\maris q3mm6nk\Desktop\FILES\data for ibm\Fertilizers Re
commendation System For Disease Prediction\Dataset Plant Disease\fruit-
dataset\fruit-dataset\test'
                                                                        In [47]:
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras.preprocessing.image import ImageDataGenerator
                                                                        In [48]:
model =
tf.keras.models.load model(r'C:\Users\maris q3mm6nk\Desktop\FILES\data for
ibm\Fertilizers Recommendation System For Disease Prediction\Dataset
Plant Disease\fruitdata.h5')
                                                                        In [49]:
test datagen 1=ImageDataGenerator(rescale=1)
test_generator_1=test_datagen_1.flow_from_directory(
    test dir,
    target size=(128,128),
    batch_size=20,
    class_mode='categorical'
Found 1686 images belonging to 6 classes.
                                                                        In [50]:
import numpy as np
from tensorflow.keras.models import load model
from tensorflow.keras.preprocessing import image
                                                                        In [51]:
img=image.load img(r"C:\Users\maris q3mm6nk\Desktop\FILES\data for ibm\Fert
ilizers_Recommendation_ System_For_Disease_ Prediction\Dataset Plant
Disease\fruit-dataset\fruit-dataset\train\Corn (maize) healthy\9faacf6a-
f638-435a-8994-f1418b332199___R.S_HL 8102 copy 2.jpg")
                                                                        In [52]:
ima
                                                                       Out[52]:
```



```
img=image.load img(r"C:\Users\maris q3mm6nk\Desktop\FILES\data for ibm\Fert
ilizers_Recommendation_ System_For_Disease_ Prediction\Dataset Plant
Disease\fruit-dataset\fruit-dataset\train\Corn (maize) healthy\9faacf6a-
f638-435a-8994-f1418b332199 R.S HL 8102 copy
2.jpg",target size=(128,128))
x=image.img_to_array(img)
x=np.expand dims(x,axis=0)
y=np.argmax(model.predict(x),axis=1)
index=['Apple___Black_rot', 'Apple___healthy', 'Corn_(maize)___healthy',
'Corn (maize) Northern Leaf Blight', 'Peach Bacterial spot',
'Peach healthy']
index[y[0]]
1/1 [=======] - 0s 57ms/step
                                                              Out[55]:
'Corn (maize) Northern Leaf Blight'
                                                               In [56]:
model.evaluate(test generator 1, steps=50)
ccuracy: 0.6220
                                                              Out[56]:
[1036.1376953125, 0.621999979019165]
                                                                In []:
                                                                In [ ]:
                                                                In []:
```